EPA Region 10, 1200 Sixth Avenue, Seattle, WA 98101

Sample Custody & Analysis Required Form

EPA Manchester Laboratory, 7411 Beach Drive East, Port Orchard, WA 98366, 360-871-8700

Form Effective Date: July 2005 Method of Shipment/carrier Airbill Number (if known prior to sealing): being delivered EPA Project Manager/phone number Check all that apply Account Code Mullins ✓ Enforce/Custody Possible Toxic/Hazardous □ Data Confidential Laboratory: see the applicable QAPP, SOW and/or Analytical Support Request for specific methods and detection, reporting, and/or quantitation limits Matrix Codes:
 Water/Liquid (Total)
 Water/Liquid (Filtered) #C @ enter the number of containers for each preservative Sampler Names (Print & Sign). Mark (R) after name of If applicable, circle the set of selected type followed by the appropriate preservation code P 3: Water/Liquid (Filtered) A - HCI Sediment/Soil/Solid/Bulk B - HNO G - Na₂S₂O₃+EDTA H - EDTA Co Cd Ca Cr 70 Tissue C - NaOH N - No chemical preservation P - Bottles pre-preserved at lab Mg Mn 80 Oil/Solvent Metals Micro General Chemistry Additional **Organics** E - Na S.O. T - To be preserved at the lab Se 44 Air filter Write in Ag (see reverse) (see F - ascorbic acid2, then HCI **Analyses** 42 Wipe/Swab1 reverse) reverse) Sn TI V Zn 2Na,S,O, if required by plan. (see reverse) 00 (see reverse for more to add/circle) 1 PCB wipe is to be 10cm x 10cm (100 cm²) W -□ Check here if the cooler is iced Sampler's comments for the laboratory: Enter the letter or range of letters on each container for each group of containers with the same preservative type. Each container for each unique sample number must have a unique letter on it. Sampling Date & Time Sample/Station Description/Field Measurements EPA Sample number #C 3 1 501 502 503 Receiving Laboratory Information Condition of Samples upon Receipt at Lab: Chain of Custody Record Religguished by (Signatu Received by (Signature) Date Time Date Time Relinquished by (Signature) Received by (Signature) Time Date Time Received by Mobile Lab for Field Analysis (Signature) Date Custody Seals Intact: Relinquished by (Signature) none Date Time Received for lab by (Signature) Shipped by (Signature) Distribution: White - Laboratory Copy; Yellow - Regional Sample Control Center (RSCC) Copy; Pink - Field or Office Copy

Additional Matrix Codes: 30 Leachate 50 Sludge 60 Air MITO 1 05111109 R 212VISTIA

Matrix codes: these are the codes in use at the EPA Region 10 Laboratory. Pick the matrix code that best matches the sample matrix. If in the opinion of the sampler, the sample matrix needs to be specially described, select 00 and write in a matrix description. Remember, tissue can be animal or vegetable in nature.

If the write in area becomes filled, cross out one of the pre-printed analyses and write in what is needed. Try to use the bolded analyte symbol/abbreviation (some analyses are not abbreviated).

Organics pre-printed on the form:

PAH Polynuclear Arcmatic Hydrocarbons (these are a subset of the compounds reported from GC-MS analyses for BNA - PAH by HPLC or SIM-GC/MS methods are usually requested in order to get low reporting limits). Pest Organochlorine Pesticides - PCB Polychlorinated Biphenyls aka Aroclors VOA (aka VOC) - volatile organic compounds - BNA (aka SVOC or SVOA) - semivolatile organic compounds

Organics that can be written in:

AED scan (detects chlorinated or brominated hydrocarbons) Butyltins Butyltins (mono, di, tri, tetra substituted) CB Con - Chlorinated Biphenyl Congener analysis Chlor Hyd. Chlorinated Hydrocarbons Chlorophenols Gua/Cat Guaiacols/Catechols scan Herb Herbicides OP Pest Organophosphorous Pesticides PBDE Polybrominated diphenylethers Resin Acids TPH-Dx Total Petroleum Hydrocarbons, diesel range extended to motor oil TPH-Gx Total Petroleum Hydrocarbons, gasoline range TPH-HCID Total Petroleum Hydrocarbons, identification THMs Trihalomethanes

Metals pre-printed on the form (<u>underlined</u> = 'CLP metals' - mercury must be separately requested):

Al aluminum Sb antimony As arsenic Ba barium Be beryllium B boron Cd cadmium Ca calcium Cr chromium Co cobalt Cu copper Fe iron Pb lead Mg magnesium Mn manganese Hg mercury Ni nickel K potassium Se selenium Ag silver Na sodium Sn tin Tl thallium V vanadium Zn zinc

Metals that can be written in and then circled under the box used for designating selected metals:

Au gold Cr+6 hexavalent chromium Mo molybdenum Sr strontium Ti titanium W tungsten Zr zirconium

Note: some metals may not be analyzed for on matrices other than soil/sed or water.

Microbiology Analyses pre-printed on the form:

E. Coli Escherichia coli F. Coliform Fecal Coliform T. Coliform Total Coliform

Microbiology Analyses that can be written in:

Enterococci MPA Microscopic Particulate Analysis for Determining GWUDI G/C Giardia/Cryptosporidium Coliphage Staph a Staphylococcus aureus

Toxicity Characteristic Leaching Procedure (TCLP) write in analyses³:
TCLP BNA TCLP Herb TCLP Herbicides TCLP met+Hg TCLP metals including mercury
TCLP met TCLP metals not including mercury TCLP Hg TCLP mercury TCLP Pest TCLP
Pesticides TCLP VOA

³ Analyses are normally only conducted for analytes with a TCLP regulatory criteria.

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BOD Biochemical Oxygen Demand NO₂+NO₃ Nitrite plus Nitrate Oil & Grease TDS Total Dissolved Solids TSS Total Suspended Solids

General analyses that can be written in:

Acidity Alk Alkalinity TNH3 Ammonia HCO₃ Bicarbonate Br Bromide CO₃ Carbonate COD Chemical Oxygen Demand Cl Chloride Color Color Gond Conductivity CN Cyanide CN-W&D Cyanide, weak & dissociable Flash Flash Point F Fluoride Grn Siz Grain Size Hard Hardness NO₃ Nitrite NO₃ Nitrate TNVS Non-Volatile Solids NVSS Non-Volatile Suspended Solids CLO₄ Perchlorate pH PhenoI PhenoIics SiO₃ Silica - dissolved SO₄ Sulfate Sulfide TOC Total Organic Carbon TS Total Solids % V Slds % Volatile Solids TVS Volatile Solids TVS Volatile Solids TKN Total Kjeldahl Nitrogen T-Phos Total Phosphorous D-Phos Dissolved Phosphorous O-Phos Ortho Phosphrous D-O-Phos Dissolved Ortho Phosphrous Turb Turbidity

Container guidance.

Note: this is general information only - consult the QA Project Plan on appropriate containers and preservatives for each project. Modifying methods may require modifying the number/type of containers. Freezing samples for one or more analyses may require collection of individual containers. Contact the laboratory for minimum sample volumes in situations where sample material is limited. Minimum volumes required for analysis will depend on the analysis and required reporting limits.

Containers for soil/sediment:

Metals/cyanide/mercury: 1, wide mouth 8 ounce glass or HDPE.

Extractable organics: 1, 8 ounce wide mouth amber glass, for one or two analyte groups

Inorganics and organics: 1, sixteen ounce wide mouth amber glass.

VOAs/purgeables: Contact the laboratory for the proper number/type of special Closed-System sample containers.

Containers/chemical preservatives for water4:

Metals/regular mercury: 1, one liter HDPE, HNO3 to pH<2

Mercury by method 1631: HCl and 250 mL containers provided by MEL

Cyanide: 1, 250 mL or larger HDPE, remove sulfides and/or residual chlorine then add NaOH to

Extractable organics (BNA, Pest, PCP, PAH etc.): two, one liter amber glass containers for each analysis - if more than one liter will be extracted for the project, it is advisable that the container size match (but not exceed) the volume to be extracted. Two separate volumes are usually collected for each analysis to allow for re-extraction if needed.

VOAs/purgeables: 3, zero headspace 40 mL amber glass vials with Teflon Septa, remove residual chlorine then add HCl to pH<2

Alkalinity: 1, 250 mL or larger HDPE, no extra volume for lab QC

Ammonia: 1, 250 mL or larger HDPE, H2SO4 to pH<2, no extra volume for lab QC

BOD 5: 1, one gallon HDPE, no extra volume for lab QC

TSS: 1, one liter or larger HDPE, no extra volume for lab QC

TDS: 1, 250 mL or larger HDPE, no extra volume for lab QC

Oil & Grease: 1, one liter clear glass, HCl to pH<2, submit 4 separate containers for the lab QC sample

NO2+NO3: 1, 250 mL or larger HDPE, H2SO4 to pH<2, no extra volume for lab QC

Br, Cl, F, SO4, CLO4: for analysis by ion chromatography, 1, 100 mL or larger HDPE, no extra

Water samples to be designated for lab QC should have double volume submitted for metals, triple volume for organics. In general, extra volume is usually not required for lab QC for soil/ sediment.